AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) Medicament for treatment and/or prevention of infections and/or inflammation caused by Candida species, said medicament comprising a polycationic peptide or protein in an effective amount to treat said infections and/or inflammation, and a buffer in an amount of between about 0.5-100 meq H⁺ for maintaining the pH of treatable tissue within a pre-selected range of about 5 to 8.5, wherein the polycationic peptide or protein is selected from the group consisting essentially of:

human lactoferrin, bovine lactoferrin, lactoferricin, conalbumin (ovotransferrin), and hydrolysates of lactoferrin, polypeptide having an amino acid sequence selected from the following sequences (1) (15), or derivatives thereof having an amide at the carboxy end thereof:

- (1) Arg-Trp-Gln-Trp-Arg;
- (2) Arg-Arg-Gln-Trp-Arg;
- (3) Lys-Val-Ser-Trp-Arg;
- (4) Arg-Asn-Met Arg Lys;
- (5) Arg-Trp-Gln-Glu-Lys;
- (6) Arg Arg Trp Gln-Trp-Arg;
- (7) Arg Arg Arg-Gln-Trp-Arg;
- (8) Lys-Thr-Val-Ser-Trp-Arg;
- (9) Lys-Arg-Asn-Met-Arg-Lys;
- (10) Arg-Trp Gln Glu Met Lys;
- (11) Lys-Thr-Arg-Arg-Trp-Gln-Trp-Arg-Met-Lys-Lys;
- (12) Lys-Ser Arg Arg Arg Gln-Trp Arg Met Lys-Lys;
- (13) Lys Thr-Val-Ser-Trp Gln Thr Tyr Met Lys Lys;
- (14) Lys-Thr Phe Gln-Trp Gln-Arg-Asn-Met-Arg-Lys;
- (15) Lys-Thr-Leu-Arg-Trp-Gln-Asn-Glu Met-Arg-Lys;

a peptide containing one of the following amino acid sequences (a), (b), (c), or (d):

Lys-Cys-Arg-Arg-Trp-Gln-Trp-Arg-Met-Lys-Lys-Leu-Gly-Ala-Pro-Ser-Ile-Thr-Cys-Val-; (a) -Lys-Cys* Arg-Arg-Trp Gln-Trp Arg-Met Lys-Lys-Leu-Gly Ala Pro Ser-Ile-Thr -Cys*-Val-: (b) Lys-Cys-Phe-Gln-Trp-Gln-Arg-Asn-Met-Arg-Lys-Val-Arg-Gly-Pro-Pro-Val-Ser-Cys-Ile; (c) -Lys-Cys* Phe Gln-Trp-Gln-Arg Asn Met Arg Lys-Val-Gly Pro Pro Val-Ser -Cys*-Ile : (d) where Cys* represents cysteine in which the thiol group is blocked in order to prevent disulfide bond formation and mixtures thereof and pharmaceutically and cytologically acceptable salts thereof; a peptide consisting of one of the following specific amino acid sequences (a) - (1) or derivatives thereof having an amide at the carboxy end thereof: (a) Phe-Gln-Trp-Gln Arg Asn (b) Phe-Gln Trp Gln Arg (c) Gln-Trp-Gln-Arg (d) Trp-Gln-Arg (e) Arg-Arg-Trp-Gln-Trp (f) Arg-Arg-Trp-Gln (g) Trp-Gln-Trp-Arg

- (h) Gln-Trp-Arg
- (i) Leu-Arg-Trp-Gln-Asn-Asp
- (j) Leu-Arg-Trp Gln Asn
- (k) Leu-Arg-Trp-Gln
- (l) Arg-Trp-Gln,

and lactoferrin hydrolyzate for the manufacture of antibacterial agent, mixtures thereof; and pharmaceutically and cytologically acceptable salts of this group.

2-3. (Canceled)

- 4. (Previously Presented) Medicament according to claim 1, wherein the polycationic peptide is lactoferrin.
- 5. (Previously Presented) Medicament according to claim 1, wherein the buffer is selected from the group consisting essentially of carbonate, phosphate, tromethamine, and tetrahydroxypropyl ethylenediamine buffers, and/or suitable salts thereof.
- 6. (Previously Presented) Medicament according to claim 1, comprising at least 0.5 μ mol, and wherein the buffer is present in at least 1 μ mol.
- 7. (Previously Presented) Medicament according to claim 1, wherein the buffer is present in the range of 0.8-20 meq H⁺ per unit dose medicament.
- 8. (Currently Amended) Medicament according to claim 1, further comprising one or more of the following, standard excipients, dilutents dilutents and carriers.
- 9. (Previously Presented) Medicament according to claim 1, further comprising a standard anti-fungal, anti-bacterial, and/or antiviral agent selected from the group consisting essentially of azole compounds, 5-fluorocytosine, and polyenes.
- 10. (Previously Presented) Medicament according to claim 9, wherein the antifungal agent is present in the medicament in the range of 0.025 mg-50 mg.

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11. (Previously Presented) Medicament for the treatment and/or prevention

of infections and/or inflammation caused by Candida species, said medicament comprising a

polycationic peptide or protein being present in the medicament at a predetermined level in

order to yield a synergistic pharmaceutical effect in combination with separately

administerable bacterial, fungal and viral medicaments.

12. (Previously Presented) Medicament of claim 11 wherein the

polycationic peptide or protein is selected from the group as defined in claim 1, and is present

in the medicament in an amount of at least 10 mg/ml.

13. (Original) Medicament according to claim 12, further comprising one or

more antifungal agents as defined in claim 9 and/or one or more excipients, diluents or

carriers as defined in claim 8.

14. (Previously Presented) Medicament according to claim 13, wherein the

anti-fungal agents are present in an amount of at least 0.1 mg/ml.

15. (Previously Presented) Medicament according to claim 1 and/or

pharmaceutically acceptable salts thereof having one or more of the following forms: tablet,

spray, salve, gel, liquid.

16-21. (Canceled)

22. (Previously Presented) A method for the treatment and/or prevention of

infections caused by bacteria, fungi, viri and the like, inflammations and/or tumors whereby

an effective amount of a composition according to claim 1 is administered to a patient.

23. (Withdrawn) Medicament according to claim 1, wherein the buffer

maintains the pH of treatable tissue in the range of between about 7-8.

- 24. (Withdrawn) Medicament according to claim 1, wherein the buffer is citrate salts.
- 25. (Withdrawn) Medicament according to claim 1, comprising at least 5 or more μmol polycationic peptide or protein, and wherein the buffer is present in at least 2 or more μmols.
- 26. (Withdrawn) Medicament according to claim 1, further comprising a standard antifungal, anti-bacterial, and/or antiviral agent selected from the group consisting essentially of pimaricine, fungicide, and amphotericin B.
- 27. (Withdrawn) Medicament according to claim 1, further comprising a standard antifungal, anti-bacterial, and/or antiviral agent selected from the group consisting essentially of fluconazol, amphotericin B and 5-fluorocytosine.
- 28. (Withdrawn) Medicament according to claim 1, wherein the antifungal agent is present in the medicament in the range of between about 0.5-5 mg.
- 29. (Withdrawn) Medicament of claim 11, wherein the polycationic peptide or protein is selected from the group as defined in claim 1, and is present in the medicament in an amount of at least 20 mg/ml bodily fluid.
- 30. (Withdrawn) Medicament of claim 11, wherein the polycationic peptide or protein is selected from the group as defined in claim 1, and is present in the medicament in an amount of at least 60 mg/ml bodily fluid.
- 31. (Withdrawn) Medicament of claim 11, wherein the polycationic peptide or protein is selected from the group as defined in claim 1, and is present in the medicament in an amount of at least 100 mg/ml bodily fluid.
- 32. (Withdrawn) Medicament according to claim 13, wherein the antifungal agents are present in an amount of at least 0.2 mg/ml.

- 33. (Withdrawn) In a medicament comprised of a polycationic peptide or a protein for treatment and/or prevention of infections caused by bacteria, fungi, viri and the like, inflammations and/or tumors, the step comprising adding a buffer in an amount of between about 0.5 to 100 meq H⁺ per unit dose medicament to the medicament to maintain the pH of a treatable tissue within a pre-selected range.
- 34. (Withdrawn) The medicament according to claim 33, wherein the buffer maintains the pH of treatable tissue in the range of between about 5 to 8.5.
- 35. (Withdrawn) The medicament according to claim 33, wherein the buffer maintains the pH of treatable tissue in the range of between about 7-8.
- 36. (Withdrawn) The medicament according to claim 33, wherein the buffer is selected from the group consisting essentially of carbonate, phosphate, tromethamine, and tetrahydroxypropyl ethylenediamine buffers, and/or suitable salts thereof.
- 37. (Withdrawn) The medicament according to claim 33, wherein the buffer is citrate salts.
- 38. (Withdrawn) The medicament according to claim 33, comprising at least 0.5 μ mol, and wherein the buffer is present in at least 1 μ mol.
- 39. (Withdrawn) The medicament according to claim 33, comprising at least 5 or more μmol polycationic peptide or protein, and wherein the buffer is present in at least 2 or more μmols.
- 40. (New) Medicament according to claim 1, wherein the polycationic peptide or protein is selected from hydrolysates of lactoferrin, and wherein the hydrolysates of lactoferrin comprise:
- a polypeptide having an amino acid sequence selected from the following sequences (1)-(15), or derivatives thereof having an amide at the carboxy end

thereof:

- (16) Arg-Trp-Gln-Trp-Arg;
- (17) Arg-Arg-Gln-Trp-Arg;
- (18) Lys-Val-Ser-Trp-Arg;
- (19) Arg-Asn-Met-Arg-Lys;
- (20) Arg-Trp-Gln-Glu-Lys;
- (21) Arg-Arg-Trp-Gln-Trp-Arg;
- (22) Arg-Arg-Gln-Trp-Arg;
- (23) Lys-Thr-Val-Ser-Trp-Arg;
- (24) Lys-Arg-Asn-Met-Arg-Lys;
- (25) Arg-Trp-Gln-Glu-Met-Lys;
- (26) Lys-Thr-Arg-Arg-Trp-Gln-Trp-Arg-Met-Lys-Lys;
- (27) Lys-Ser-Arg-Arg-Arg-Gln-Trp-Arg-Met-Lys-Lys;
- (28) Lys-Thr-Val-Ser-Trp-Gln-Thr-Tyr-Met-Lys-Lys;
- (29) Lys-Thr-Phe-Gln-Trp-Gln-Arg-Asn-Met-Arg-Lys;
- (30) Lys-Thr-Leu-Arg-Trp-Gln-Asn-Glu-Met-Arg-Lys;

a peptide containing one of the following amino acid sequences (a), (b), (c), or (d):



Lys-Cys-Arg-Arg-Trp-Gln-Trp-Arg-Met-Lys-Lys-Leu-Gly-Ala-

Pro-Ser-Ile-Thr-Cys-Val-; (a)

-Lys-Cys*-Arg-Arg-Trp-Gln-Trp-Arg-Met-Lys-Lys-Leu-Gly-Ala-Pro-Ser-Ile-Thr -Cys*-Val-: (b)



Lys-Cys-Phe-Gln-Trp-Gln-Arg-Asn-Met-Arg-Lys-Val-Arg-Gly-

Pro-Pro-Val-Ser-Cys-Ile-; (c)

-Lys-Cys*-Phe-Gln-Trp-Gln-Arg-Asn-Met-Arg-Lys-Val-Gly-Pro-Pro-Val-Ser -Cys*-Ile-: (d)

where Cys* represents cysteine in which the thiol group is blocked in order to prevent disulfide bond formation and mixtures thereof and pharmaceutically and cytologically acceptable salts thereof;

a peptide consisting of one of the following specific amino acid sequences (a)
- (l) or derivatives thereof having an amide at the carboxy end thereof:

- (m) Phe-Gln-Trp-Gln-Arg-Asn
- (n) Phe-Gln-Trp-Gln-Arg
- (o) Gln-Trp-Gln-Arg
- (p) Trp-Gln-Arg
- (q) Arg-Arg-Trp-Gln-Trp
- (r) Arg-Arg-Trp-Gln
- (s) Trp-Gln-Trp-Arg
- (t) Gln-Trp-Arg
- (u) Leu-Arg-Trp-Gln-Asn-Asp
- (v) Leu-Arg-Trp-Gln-Asn
- (w) Leu-Arg-Trp-Gln
- (x) Arg-Trp-Gln,

and pharmaceutically and cytologically acceptable salts of this group.